

New Jersey Update

Robert Schuster

NJDEP Marine Water Monitoring

- Two vibrio vulnificus cases in 2018. Same Dealer.
- Continued our routine vibrio testing, but added looking for halobacteriovorax, studied water sediment and shellfish tissue. Manuscript written by Gary Richards USDA. Includes PFGE analysis of vibrio.
- Detected *pseudonitzschia* in coastal waters during the colder months. Toxin testing was negative.
- Rule making in process to address upgrades and downgrades in water classification. Will be upgrading over 32,000 acres. Will change the Vp control plan to Vibrio Control Plan to address the V vulnificus cases.
- Assisted our Freshwater Bureau, to develop an algorithm for phycocyanin pigment for potential remote sensing of cyanobacteria blooms, one lake studied is a coastal lake that discharges to the ocean.
- Continued with a large citizen science monitoring program and performed MST to address the water quality of a downgraded shellfish water area.
- Added new MST PCR primers and probes, and are refining the use of ARA.
- Continue the background study of MSC in shellfish throughout the year.